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### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**Applicants** 

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Application No.

09/544,525

Filed

April 6, 2000

For

DSP-3 DUAL-SPECIFICITY PHOSPHATASE

Examiner

: Rebecca E. Prouty

Art Unit

: 1652

Docket No.

: 200125.408

Date

: October 9, 2002

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Commissioner for Patents

U.S. Patent and Trademark Office

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## REQUEST FOR SUBSTITUTION OF DRAWINGS

#### Commissioner for Patents:

Drawing substitutions for Figures 1, 2, and 3 are hereby submitted for approval by the Examiner. The substitute figures are identical to Figures 1-3 in provisional application No. 60/142,338 (filed July 2, 1999) (incorporated by reference in its entirety into the present application), and are supported by the text of provisional application No. 60/142,338 and the present specification (see, e.g., present specification at page 7, lines 15-24; page 12, lines 8-18; Example 1).

Respectfully submitted,

Ralf M. Luche and Bo Wei

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**Enclosures:** 

Postcard

3 Sheets of Figures (Substituted Figures 1, 2, and 3)

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# DSP-3, encoded by 552 base pairs

		and the second of the second o	1			
1	CCCCGCCGCT	CCTCCTCCCT	GTAACATGCC	ATAGTGCGCC.	TGCGACCACA	CGGCCGGGGC
61	CCTACCCTTC	GCCTTCAGCC	ACCATGGGGA	ATGGGATGAA	CAAGATCCTG	CCCGGCCTGT
121	ACATCGCCAA	CTTCAAAGAT	GCCAGAGACG	CGGAACAATT	GAGCAAGAAC	AAGGTGACAC
	ACATOGGCAA	TCTCCACCAT	AGTGCCAGGC	CTATGTTGGA	GGGAGTTAAA	TACCTGTGCA
181	ATAITCIGIC	CCAMMCACCA	TCTCAAAACC	TGACAAGACA	TTTCAAAGAA	AGTATTAAAT
241	TCCCAGCAGC	GGATICACCA	CGCGGTGAGA	CCTCCCTTGT	ACACTGCCTG	GCCGGGGTCT
301	TCATTCACGA	GTGCCGGCTC	ATCGCATACA	MCAMCACCCT.	CACTCACTTT	GGCTGGGAGG
361	CCAGGAGCGT	GACACTGGTG	ATCGCATACA	TCATGACCG1	CCCCAACCTC	CCCTTCCAGA
421	ATGCCCTGCA	CACCGTGCGT	GCTGGGAGAT	CCTGTGCCAA	DECCAMOUNT	GUCTICCAUA
481	GACAGCTCCA	GGAGTTTGAG	AAGCATGAGG	TCCATCAGTA	TCGGCAGTGG	CIGAAGGAAG
541	AATATGGAGA	GAGCCCTTTG	CAGGATGCAG	AAGAAGCCAA	AAACATTCTG	GCCGCTCCAG
601	GAATTCTGAA	GTTCTGGGCC	TTTCTCAGAA	GACTG <b>TAA</b> TG	TACCTGAAGT	TTCTGAAATA
661	TTCCDDDCCC	GCAGAGTTTA:	GGCTGGTGCT	GCCAAAAAGA	AAAGCAACAT	AGAGTTTAAG
721	TATCCACTAC	TGATTTGTAA	ACTTGTTTTT	CATTTGAAGC	TGAATATATA	CGTAGTCATG
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# Translated full length protein, 184 amino acids

MGNGMNKILPGLYIGNFKDARDAEQLSKNKVTHILSVHDSARPMLEGVKYLCIPAADSPS QNLTRHFKESIKFIHECRLRGESCLVHCLAGVSRSVTLVIAYIMTVTDFGWEDALHTVRA GRSCANPNVGFQRQLQEFEKHEVHQYRQWLKEEYGESPLQDAEEAKNILAAPGILKFWAF LRRL\*

FIG. 2



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### FIG. 3

EIG. 3	
PYS11 MKP-7 hVH5 PRC1 MKP-1 MKP-4 MKP-4 MKP-5 VHR USP-3 Consensus	PYSI1 MKP-7 hVH5 PAC1 MKP-1 MKP-4 MKP-5 VHR USP-3 Consensus
101 110 120 130 140 150 160 170 180183  FPERISFIDER-RGKNCGVLVHCLAGISRSVIVTVANYLHQKHULSHNDAYDIVKHKKSNISPAFAFAGALLDFERILGLSS FPERISFIDER-RSKKCGVLVHCLAGISRSVIVTVANYLHQKHULSLNDDAYDFVKRKKSNISPAFAFAGALLDFERILGLSS LDKSIEFIDKA-KLSSCQVIVHCLAGISRSHIIAIAYIHKTHGHSSDDAYRFVKDRRPSISPAFAHGALLDFERILGLSS LDKSIEFIDSY-KNSGGRVLVHCQAGISRSHIIAIAYIHKTHGHSSDDAYRFVKDRRPSISPAFAHGALLDFERILKLA FQERISFIDSY-KNSGGRVLVHCQAGISRSHIICLAYLIQSHRVRLDEAFEFVKQRRGVISPAFSFHGQLLQLETQVLCH FRERIDFIDSI-KNAGGRVLVHCQAGISRSHIICLAYLHAKKRVRLEEAFEFVKQRRSIISPAFSFHGQLLQFESQVLAPH FRERIDFIDGV-REKGGKVLVHCQAGISRSHIICLAYLHAKKRVRLEEAFEFVKQRRSIISPAFSFHGQLLQFESQVLATS FQERIDFIDCV-REKGGKVLVHCQAGISRSHIICLAYLHAKKRVRLEEAFEFVKQRRSIISPAFSFHGQLLQFESQVLATS FRERIDFIDGV-REKGGKVLVHCCAGGYSRSPILVIAYLHAKKRVRLEEAFEFVKQRRSHISPAFSFHGQLLQFESQVLATS FERRADFIDQALQKAGRVLVHCCAGGYSRSPILVIAYLHAKKRVRLEEAFEFVKQRRSHISPAFSFHGQLLQFESQVLATS FERRADFIDQALQKAGRVLVHCCAGGYSRSVILVIAYLHAKKRVRLEEAFEFVKQRRSHISPAFSFHGQLLQFESQVLATS FERRADFIDQALQKAGRVLVHCCAGGYSRSVILVIAYLHAKKRVRLEEAFEFVKQRRSHISPAFSFHGQLLQFESQVLATS FERRADFIDGALQKAGRVLVHCCAGGYSRSVILVIAYLHAKARAKAVRLEEAFBRAYSPAFGFRQQLQFFEKHEVHQYRQ FKESIKFIHEC-RLRGESCLVHCLAGVSRSVILVIAYIHTVTDFGHEDALHAVRAGRSCANPAVGFQRQLQFFEKHEVHQYRQ FKESIKFIHEC-RLRGESCLVHCLAGUSRSVILVIAYIHTVTDFGHEDALHAVRAGRSCANPAVGFQRQLQFFEKHEVHQYRQ VJVHCLAGUSRSVILVIAYIH  4AA FINANTANIA	1 10 20 30 40 50 60 70 80 80 90 10 plants of the control of the co
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